



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/796,585

03/09/2004

John O'Dea

98-58 CI

1115

30031

7590

09/10/2007

MICHAEL W. HAAS  
RESPIRONICS, INC.  
1010 MURRY RIDGE LANE  
MURRYSVILLE, PA 15668

EXAMINER

EREZO, DARWIN P

ART UNIT

PAPER NUMBER

3731

MAIL DATE

DELIVERY MODE

09/10/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

**Application No.**

10/796,585

**Applicant(s)**

O'DEA, JOHN

**Examiner**

Darwin P. Erez

**Art Unit**

3731

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 18 May 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 17-30 is/are pending in the application.
- 4a) Of the above claim(s) 27-29 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 17-26 and 30 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- ☐ Notice of Informal Patent Application
- ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### *Election/Restrictions*

1. Applicant's election of Group I in the reply filed on 5/18/07 is acknowledged.

Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

2. Claims 27-29 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 5/18/07.

### *Claim Rejections - 35 USC § 102*

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 17, 18, 20-22, 24, 25 and 30 are rejected under 35 U.S.C. 102(b) as being anticipated by US 5,660,170 to Rajan et al.

(claim 17) Rajan discloses an apparatus for providing pressure support comprising:

- a gas flow generating system **6**;
- monitoring means **8**; and
- controlling means **14**.

Art Unit: 3731

The controlling means is a control unit that is capable of sending several identical inspiration pulses (col. 6, lines 48-52); wherein PEEP levels are measured (Fig. 2; col. 6, lines 28-39); and wherein the following opening pressure is based on the average of the three inspiration pulses, which would inherently include the PEEP levels (and PIP levels).

(claim 18) As seen in Fig. 2, a portion of the pressure level during the inspiratory phase is higher than the baseline PEEP.

(claims 20 and 22) The monitoring means **8** is proximate the airway of the subject, wherein the monitoring means is connected to the controlling means via a wire (shown in the circuit diagram of Fig. 2). It is also noted that the term "proximate" is a relative term.

(claim 21) Fig. 2 shows a circuit diagram of the device being connected to the patient. Therefore, it would be inherent for the system to have a patient circuit interface for the device to deliver the oxygen to the patient.

(claim 24) Rajan discloses a pressure gauge/transducer **10**.

(claim 25) The device of Rajan is fully capable of being portable.

(claim 30) Rajan also discloses the method of providing the device about to deliver a flow of gas to a patient, wherein the PEEP and other respiratory parameters are determined; and wherein the pressure of gas delivered to the patient is controlled based on the average of these parameters.

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

7. Claims 19 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rajan et al, as applied in the rejections above, and in further view of US 5,551,419 to Froechlich et al.

Rajan discloses a device gas flow generating system having a regulating unit **2**, which is Servo Ventilator 300, and the controlling means **14** controlling the pressure supplied by the gas flow generating system **6**. Rajan is silent with regards to how the gas flow generating system is controlled by the controlling unit (e.g., by controlling the speed of the blower). However, Froechlich discloses a similar device having a gas flow generating system **12** and a controlling means **17**, wherein gas flow generating system is a blower. Therefore, since both gas flow generating system are well known in the prior art and both perform the function of regulating the amount of gas pressure

Art Unit: 3731

delivered to a patient, one of ordinary skill in the art would have found it obvious to replace the gas flow generating system of Rajan with the system taught by Froechlich.

8. Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Rajan et al., as applied to the rejections above, and in further view of US 5,868,133 to DeVries et al.

Rajan is silent with regards to the monitoring means being connected to the controlling means via a wireless signal. However, DeVries teaches a medical device in which components are connected via hard wire or wireless (col. 12, lines 41-43). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to replace the hard wire connection of Rajan with a wireless connection because using a wireless connection or hard wire connection is a mere design choice that would be available to one of ordinary skill in the art.

#### ***Terminal Disclaimer***

9. The terminal disclaimer filed on 1/13/07 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of 6,705,314 has been reviewed and is accepted. The terminal disclaimer has been recorded.

#### ***Response to Arguments***

10. Applicant's submission of terminal disclaimer has overcome the obviousness-type double patenting rejections for claims 17-29 and 30. However, upon an updated search, the claims are now rejected in view of Rajan et al.


Art Unit: 3731

**Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Darwin P. Erezzo whose telephone number is (571) 272-4695. The examiner can normally be reached on M-F (8:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jackie Ho can be reached on (571) 272-4696. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
Darwin P. Erezzo  
Examiner  
Art Unit 3731

de